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1. A file system comprising a plurality of volumes, comprising a setting unit setting correspondence with path information and

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a file managing unit managing policy data composed of the directory and the policy attribute.

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2. A file system comprising a plurality of volumes, comprising a setting unit setting correspondence with path information and

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an assigning unit assigning a directory so as to be inherited or assigning specified policy attribute to a subdirectory.

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3. The file system wherein

information indicating a path search is registered in policy attribute data.

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a setting unit setting  
 correspondence with path information  
 and  
 a file managing unit managing  
 policy data composed of the  
 directory and the policy attribute  
 10  
 2. A file system comprising a  
 plurality of volumes, comprising  
 a setting unit setting  
 correspondence with path information  
 15 and  
 an assigning unit assigning  
 of a directory so as to be included  
 or assigning specified policy  
 subdirectory.  
 20  
 3. The file system  
 wherein  
 information indicating  
 a path search is registered in  
 25 policy attribute data.

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10 a file managing unit m  
policy data composed of the  
directory and the policy att

2. A file system c  
plurality of volumes, compri  
a setting unit setting  
correspondence with path inf  
15 and  
an assigning unit assign  
of a directory so as to be inh  
or assigning specified poli  
subdirectory.

20 3. The file system  
wherein  
information indicating  
a path search is registered i  
25 policy attribute data.

2. A file system of a plurality of volumes, comprising:  
a setting unit setting a correspondence with path information and  
an assigning unit assigning of a directory so as to be inherited or assigning specified policy to a subdirectory.

3. The file system wherein  
information indicating a path search is registered in policy attribute data.

10 a setting unit setting  
15 correspondence with path information  
and  
an assigning unit assigning  
of a directory so as to be inherited  
or assigning specified policy attribute data to  
subdirectory.  
20

3. The file system  
wherein  
information indicating  
a path search is registered in  
25 policy attribute data.

an assigning unit assign  
of a directory so as to be inh  
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subdirectory.

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3. The file system  
wherein  
information indicating  
a path search is registered i  
25 policy attribute data.

3. The file system wherein information indicating a path search is registered in policy attribute data.

information indicating  
a path search is registered in  
25 policy attribute data.

4. The file system according to claim 3,  
further comprising

a control table storing information indicating a  
directory to be searched next, wherein

5 pointer information pointing to a storage  
location within said control table is registered as  
policy attribute data of a directory.

10 5. The file system according to claim 4,  
wherein

checkpoint information indicating path  
information of a directory yet to be generated is  
registered to said control table for the directory.

15 6. The file system according to claim 4,  
wherein

checkpoint information registered to said control  
table is searched, and a directory for which the  
checkpoint information is set is searched.

20 7. The file system according to claim 2,  
wherein

when a name of a directory is changed, policy  
attribute data of a parent directory is inherited to  
25 a subdirectory if policy attribute data is not specified

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for the subdirectory, and specified policy attribute data is assigned to a subdirectory if the policy attribute data is specified for the subdirectory.

5           8.     The file system according to claim 2, wherein:

          whether or not to require inheritance is predefined for the policy attribute data; and

10           policy attribute data of a parent directory is assigned so as to be inherited to a subdirectory if the policy attribute data of the parent directory is data which is requested to be inherited, or specified policy attribute data is assigned to the subdirectory if the policy attribute data of the parent directory is data  
15           which is not requested to be inherited.

          9.     The file system according to claim 1, further comprising

20           a policy violation registering unit registering policy violation information indicating a policy attribute violation to corresponding policy attribute data, if a file operation which violates the policy attribute data is performed.

25           10.    The file system according to claim 1,

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further comprising

a policy recovering unit causing a file or a directory which violates a policy to comply with the policy, and deleting corresponding policy violation information.

11. The file system according to claim 1, wherein

information of a total size of files within a directory is registered as policy attribute data of the directory.

12. The file system according to claim 1, wherein

when a file is stored in an archive file, policy data composed of path information of a directory and policy attribute data is stored in the archive file.

13. The file system according to claim 12, further comprising

a registering unit reading and registering the policy data stored as a hidden file in the archive file, when the file is backed up.

14. The file system according to claim 13,

wherein

when a file is restored, a comparison is made between path information of a directory to be generated and path information of a directory within the policy data stored as the hidden file in the archive file, and the policy attribute data is set for the directory the path information of which matches.

15. A file management method for use in a file system configured by one or a plurality of volumes, comprising:

setting policy attribute data in correspondence with path information of a directory; and

managing a file based on policy data composed of the path information of the directory and the policy attribute data.

16. A computer-readable storage medium on which is recorded a program for causing a computer to execute a process, said process comprising:

setting policy attribute data in correspondence with path information of a directory; and

managing a file based on policy data composed of the path information of the directory and the policy attribute data.

17. A computer-readable storage medium on which is recorded a program for causing a computer to execute a process, said process comprising:

5        setting policy attribute data in correspondence with path information of a directory; and

      assigning policy attribute data set for a directory so as to be inherited to a subdirectory, or assigning specified policy attribute data to a subdirectory.

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